The Seventh Annual Neuro ICU Symposium

Empowering Success in Neurocritical Care

APRIL 3-5, 2019

Westin Oaks Galleria, Houston, Texas, U.S.A.
DATES
April 3-5, 2019

LOCATION
Westin Oaks Galleria
5011 Westheimer Rd.
Houston, Texas 77056

COURSE DESCRIPTION
The seventh annual Neuro ICU Symposium is our successful two-and-a-half-day CME course designed to educate physicians and other healthcare professionals on how to optimally manage patients using a team approach and evidence-based medicine. This year’s emphasis will be on empowering success in neurocritical care, focusing on comprehensive patient care and optimizing critical care delivery. The course will again be hosted in the lovely Galleria location and has many exciting highlights: the results of the MISTIE Trial, neurocritical care board review course, a dedicated neuroscience nursing symposium, and different viewpoints on hot topics. Popular sessions from previous years including real patient experiences, simulation workshops, and cross-fire debates will also return.

LEARNING OBJECTIVES
As a result of attending this symposium, participants will be able to:

1. Discuss the latest evidence-based and cutting-edge medical literature in neurocritical care.
2. Describe the hot topics in neurocritical care.
3. Develop appropriate strategies for incorporating evidence-based protocols into clinical management through the use of case-based learning and real-life examples.
4. Apply the latest evidence when caring for neurocritical care patients.

AUDIENCE
- General and consult neurologists, stroke neurologists, neurointensivists
- General, vascular, spine and trauma neurosurgeons
- Pulmonary critical care medicine physicians
- Surgical critical care and general/trauma surgeons
- Anesthesiology critical care medicine physicians
- Emergency medicine physicians
- Critical care registered nurses, neurological nurses
- Acute care nurse practitioners, physician assistants
- EMTs and paramedics
- Pharmacists
- Physicians and surgeons in training
2019 THEME: EMPOWERING SUCCESS IN NEUROCITICAL CARE

• NEW THIS YEAR: Neurocritical Care Board Review
  Get up to date on critical care topics. This full-day course will prepare you for the neurocritical care and other critical care board exams.

• NEW THIS YEAR: Neuroscience Nursing Symposium
  A comprehensive program for critical care nurses and other healthcare professionals.

• The MISTIE III Trial
  Will minimally invasive surgery become the standard of care for patients with ICH? Hear the results of this landmark trial directly from the study team.

• Hot Topics
  “This is how I manage it.” Two experts demonstrate different ways of managing challenging clinical cases.

• Simulation Labs
  Hands-on workshops in small groups.

• Cross-Fire Debates
  Watch experts debate controversial issues in Neurocritical Care. The audience will vote to determine the winner.

• BACK BY POPULAR DEMAND: The Patient Experience
  Patients share what illness is like from their perspective.
2019 NEURO ICU SYMPOSIUM

COURSE DIRECTOR
Tiffany R. Chang, MD
Director, Neurocritical Care Fellowship Program
Assistant Professor, Department of Neurology
and Vivian L. Smith Department of Neurosurgery
Misher Neuroscience Institute
McGovern Medical School at UTHealth
Memorial Hermann-Texas Medical Center, Houston, Texas

COURSE CO-DIRECTOR
George Williams, MD, FCCM, FCCP
Director, Critical Care Fellowship Program
Associate Professor, Department of Anesthesiology
and Vivian L. Smith Department of Neurosurgery
Misher Neuroscience Institute
McGovern Medical School at UTHealth
Memorial Hermann-Texas Medical Center, Houston, Texas

INVITED FACULTY SPEAKERS

Brian Cushing
Assistant Strength & Conditioning Coach
Houston Texans

Jennifer Catherine Erklauer, MD
Assistant Professor of Pediatrics and Neurology
Texas Children’s Hospital
Baylor College of Medicine
Houston, Texas

Stephen Figueroa, MD
Assistant Professor of Neurology
UT Southwestern Medical School
Dallas, Texas

Karin M. Halvorson, MD
Assistant Professor of Clinical Medicine
Tulane University School of Medicine
New Orleans, Louisiana

Chethan Venkatashubba Rao, MBBS
Assistant Professor of Neurology
Baylor College of Medicine
Houston, Texas

David Victor III, MD
Assistant Professor of Clinical Medicine
Houston Methodist Hospital
Houston, Texas

Wendy Ziai, MD, MPH
Associate Professor of Neurology
The Johns Hopkins University
Baltimore, Maryland
MCGOVERN MEDICAL SCHOOL AT UTHEALTH FACULTY SPEAKERS

• **Wamda Ahmed, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Bindu Akkanti, MD**, Assistant Professor of Critical Care Medicine, Department of Medicine, McGovern Medical School at UTHealth
• **Teresa Allison, PharmD, BCPS, BCCCP**, Critical Care Clinical Specialist, Neurosciences, Memorial Hermann-Texas Medical Center
• **Ritvij Bowry, MD**, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Robert Brown, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Kristin Brown, MD**, Assistant Professor, Department of Neurology, McGovern Medical School at UTHealth
• **Tiffany R. Chang, MD**, Director, Neurocritical Care Fellowship Training Program, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **P. Roc Chen, MD**, Associate Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **H. Alex Choi, MD**, Director, Neurocritical Care, Assistant Professor, Vivian L. Smith Department of Neurosurgery and Department of Neurology, McGovern Medical School
• **Bryan Cotton, MD, MPH, FACS**, Professor, Department of Surgery, McGovern Medical School at UTHealth
• **Mark J. Dannenbaum, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
• **Arthur L. Day, MD**, Director, Neurosurgery Residency Training Program, Professor and Vice Chair, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Yoshua Esquenazi, MD**, Director of Neurosurgical Oncology, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Kevin Finkel, MD**, Division Director, Professor, Vice-Chair, Renal Diseases and Hypertension, Department of Internal Medicine, McGovern Medical School at UTHealth
• **Francisco Fuentes, MD**, Professor, Department of Internal Medicine, McGovern Medical School at UTHealth
• **Nicoles Gonzalez, MD**, Associate Professor, Division of Cerebrovascular Diseases, Department of Neurology, McGovern Medical School at UTHealth
• **James C. Grotta, MD**, Director of Mobile Stroke Unit Consortium, Director of Stroke Research, Clinical Innovation and Research Institute, Vascular Neurologist, Memorial Hermann-Texas Medical Center
• **Monica Gutierrez, MD**, Associate Professor, Vice Chair of Compliance, Quality And Patient Safety Medical Director, Brain Injury and Stroke Programs, TIRR Memorial Hermann
• **Pushan Jani, MD**, Assistant Professor, Department of Internal Medicine, McGovern Medical School at UTHealth
• **Leslie Kimpler, DO**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Ryan Kitagawa, MD**, Assistant Professor, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• **Samden Lhatoo, MBBS, FRCP**, Professor, Director, Texas Comprehensive Epilepsy Program, Department of Neurology, McGovern Medical School at UTHealth
• **John Lincoln, MD**, Associate Professor, Department of Neurology, McGovern Medical School at UTHealth
• **James Muntz, MD**, Professor, Department of Orthopedic Surgery, McGovern Medical School at UTHealth
MEMORIAL HERMANN STAFF

Lakeisha Atkins Malone, BSN, RN, Memorial Hermann-Texas Medical Center
Jenna Buchanan, BSN, RN, Memorial Hermann-Texas Medical Center
Kwame Bennam, RCP, RRT, Memorial Hermann-Texas Medical Center
Nicole Harrison, MBA, BSN, RN, Memorial Hermann-Texas Medical Center
Lauren Jarvis, BSN, RN, Memorial Hermann-Texas Medical Center
Christina Luther, BSN, RN, Memorial Hermann-Texas Medical Center
Elizabeth Mitchell, MPA, RN, NE-BC, Memorial Hermann-Texas Medical Center
Arnoldo Pardo, RCP, RRT, Memorial Hermann-Texas Medical Center
Rachael Pardo, RN, Memorial Hermann-Texas Medical Center
Jessica Reed, Ms-RC, RRT-ACCS, AE-C, Memorial Hermann-Texas Medical Center
Kerri Sandoval, CCC-SLP, Memorial Hermann-Texas Medical Center
James Segrist, BSN, RN, Memorial Hermann-Texas Medical Center
Sandi Shaw, BSN, RN, Memorial Hermann-Texas Medical Center
Amy Thomas, RN, Memorial Hermann Memorial City
Samantha Zwiebel, BSN, RN, CCRN, SCRN, Memorial Hermann-Texas Medical Center

2019 ANNUAL MEETING COMMITTEE

• Tiffany Chang, MD, Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• George Williams, MD, FCCM, FCCP, Associate Professor, Department of Anesthesiology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
• Lehlia Benavides, BSN, RN, Memorial Hermann-Texas Medical Center
• Gayla Bruner, BSN, RN, Office of Continuing Medical Education, Memorial Hermann Health System
• Ka륀 Echendu, MBA, BS, RN-BC, Memorial Hermann-Texas Medical Center
• Arnoldo Pardo, RCP, RRT, Memorial Hermann-Texas Medical Center
• Alisse Pratt, Director of Marketing, Neurosciences, McGovern Medical School at UTHealth
• Karolina Rodriguez, Administrative Assistant, Neurocritical Care, Vivian L. Smith Department of Neurosurgery, McGovern Medical School
• Sophie Samuel, PharmD, BCPS, Critical Care Clinical Specialist, Neurosciences, Department of Pharmacy Services, Memorial Hermann-Texas Medical Center
• Monica Tso, Marketing Representative, Mischer Neuroscience Associates
• Glenda Torres, MS, CRC, Research Coordinator, Neurocritical Care, Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth

2019 NEURO ICU SYMPOSIUM

MC GOVERN MEDICAL SCHOOL AT UTHEALTH FACULTY SPEAKERS CONTINUED

• Thy Nguyen, MD, Associate Professor, Director, Clinical Neurophysiology Fellowship, Department of Neurology, McGovern Medical School at UTHealth
• Manish N. Shah, MD, Assistant Professor, Division of Pediatric Neurosurgery, Department of Pediatric Surgery, McGovern Medical School at UTHealth
• Anjail Sharrief, MD, MPH, Assistant Professor, Department of Neurology, McGovern Medical School at UTHealth
• Shaun Smart, MD, Assistant Professor, Department of Neurology, McGovern Medical School at UTHealth
• George Williams, MD, FCCM, FCCP, Director, Critical Care Fellowship Program, Associate Professor, Department of Anesthesiology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth
ACCREDITATION

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Texas Medical Association (TMA) through the joint providership of Memorial Hermann Health System and UT Health Medical School. The Memorial Hermann Health System is accredited by TMA to provide continuing medical education for physicians.

Memorial Hermann Health System designates this live activity for a maximum of 16.75 AMA PRA Category 1 Credit(s)™. Participants should claim only the credit commensurate with the extent of their participation in the activity.

The presentations, “ICP, Coma, Herniation Syndromes and Brain Death” (4/3/2019), “The Patient Experience: Life After Intracerebral Hemorrhage and Participation in a Clinical Trial” (4/4/2019), and “The Player Experience: How a Player Feels About the Concussion Protocol” (4/4/2019) have been designated by Memorial Hermann Health System for a total of 1.25 credit(s) of education in medical ethics and/or professional responsibility.

Memorial Hermann-Texas Medical Center is an approved provider of continuing nursing education by the Texas Nurses Association - Approver, an accredited approver with distinction, by the American Nurses Credentialing Center’s Commission on Accreditation.

Application for 15.90 CRCE has been made to the AARC. Course Number 181087000.

REGISTRATION INFORMATION

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<tr>
<th>TYPE</th>
<th>REGISTRATION (closes Mar. 29th)</th>
<th>SINGLE DAY PRICING OPTION</th>
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<tr>
<td>Physicians</td>
<td>$495</td>
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<tr>
<td>Nurses &amp; Healthcare Professionals (RNs, PAs, NPs, PharmDs, etc.)</td>
<td>$275</td>
<td>1 Day: $175</td>
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<td>2 Days: $150 per day</td>
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<tr>
<td>Industry, Hospital Administrators</td>
<td>$675</td>
<td>n/a</td>
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<tr>
<td>Physicians in Training</td>
<td>$100</td>
<td>n/a</td>
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There is no fee for medical students to attend the 2019 Neuro ICU Symposium. Please email MNIneuroICU@memorialhermann.org from your institutional email address to receive registration information. Employed individuals who are only part-time students are not considered full-time students and will be subject to a fee based on their status.

DISCLOSURE

The Neuro ICU Symposium adheres strictly to the regulations and policies set forth by the ACCME and the Texas Medical Association. In order to maintain independence, fair balance and validity, all Program contents are to be reviewed by the CME office. All faculty speakers, annual meeting committee members, and coordinators are obligated to fully disclose any relevant financial relationships with any commercial interests in order to resolve any conflicts of interest.
MESSAGE FROM THE CHAIR

Welcome to the seventh annual Neuro ICU Symposium in Houston! Our conference continues to grow and evolve every year. We welcome attendees from diverse backgrounds and professions within the medical field. Our symposium is one of the most popular neurocritical care conferences in the country! This year, we aim to empower success by giving you the tools you need to provide top quality neurocritical care from any hospital.

This year, we will be offering two parallel programs on day one. First, we will be offering a Neurocritical Care Board Exam review course. Whether you are planning to take the boards or would like a general review of core neurocritical care topics, this is the course for you. As an alternative, we will also be holding a Neuroscience Nursing Symposium. This course will cover bedside nursing topics in critical care and advances in acute stroke care. We will also highlight the importance of multidisciplinary care in the ICU, including physical therapy, occupational therapy, speech and language pathology, respiratory therapy, and rehabilitation. Feel free to explore both programs throughout the day.

Our conference strives to present the most current data and latest breakthroughs in neurocritical care. This year we will feature the highly anticipated MISTIE III trial: Minimally Invasive Surgery Plus rt-PA for Intracerebral Hemorrhage Evacuation. Hear the results directly from the study team, as they weigh in on the future of surgical therapy for ICH. In addition to exploring contemporary strategies in Vascular Neurology, this year we will also feature sessions on General and Pediatric Neurocritical Care.

Real-life patient experiences were the highlight of last year’s program and will be back by popular demand this year. These courageous stories will change your perspective on neurological illness. For situations where there is not clear evidence to guide decision-making, presenters will speak on options on hot management topics from leaders in the field. This will include the popular “different viewpoints” and “cross-fire debate” sessions.

The Neuro ICU has become an exciting place for the clinicians, nurses and staff who care for our patients. Each day of the symposium, our program is full of dynamic speakers with opportunities for audience involvement. Please join us for this exceptional seventh annual Neuro ICU Symposium in Houston!

Tiffany R. Chang, MD
Course Director and Committee Chair, Seventh Annual Neuro ICU Symposium • Director, Neurocritical Care Fellowship Program • Assistant Professor, Department of Neurology and Vivian L. Smith Department of Neurosurgery, McGovern Medical School at UTHealth, Mischer Neuroscience Institute at Memorial Hermann-Texas Medical Center
### DAY ONE: WEDNESDAY, APRIL 3, 2019

**Critical Care Nursing Symposium — Parallel Session**

#### PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8 a.m.</td>
<td><strong>Continental Breakfast and Registration</strong></td>
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</table>
| 8:50 a.m. | **Welcome Remarks**  
Nicole Harrison, MBA, BSN, RN |
| 9 a.m.  | **NURSING SYMPOSIUM I: ACUTE STROKE CARE**  
**Moderator:** Nicole Harrison, MBA, BSN, RN |
| 9:00 a.m. | **Bedside Care of the Patient Post tPA and Thrombectomy**  
• Samantha Zwiebel, BSN, RN, CCRN, SCRN, and James Segrist, BSN, RN |
| 9:25 a.m. | **Emergent Thrombectomy: Breaking Up the Delay**  
• Rachael Pardo, RN |
| 9:50 a.m. | **From Better to Best: Understanding the Role of the Stroke Coordinator**  
• Amy Thomas, RN, and Sandi Shaw, BSN, RN |
| 10:15 a.m. | **Panel Discussion/Q&A** |
| 10:30 a.m. | **Break - Exhibit hall open** |
| 11:00 a.m. | **NURSING SYMPOSIUM II: CRITICAL CARE NURSING**  
**Moderators:** Lakeisha Atkins Malone, BSN, RN |
| 11:00 a.m. | **Panel Discussion/Q&A** |
| 11:25 a.m. | **Lunch** |
| 11:25 a.m. | **Proning and Other Nursing Challenges in ARDS**  
• Elizabeth Mitchell, MPA, RN, NE-BC, and Jessica Reed, Ms-RC, RRT-ACCS, AE-C |
| 1:25 p.m. | **Sodium Disorders Made Simple**  
• Tiffany Chang, MD |
| 2 p.m. | **Break - Exhibit hall open** |
| 2:30 p.m. | **NURSING SYMPOSIUM III: MULTIDISCIPLINARY ICU CARE**  
**Moderators:** Christina Luther, BSN, RN, and Jenna Buchanan, BSN, RN |
| 2:30 p.m. | **Speech and Language Pathology: Swallow Evaluations and More**  
• Kerri Sandoval, CCC-SLP |
| 2:55 p.m. | **Respiratory Therapy Considerations in the Neuro ICU**  
• Arnoldo Pardo, RCP, RRT, and Kwame Bennam, RCP, RRT |
| 3:20 p.m. | **What Happens Next? Inpatient Rehab and the Disorders of Consciousness Program**  
• Monica Gutierrez, MD |
| 3:45 p.m. | **Panel Discussion/Q&A** |
| 4 p.m. | **Neuro Family Feud**  
• Christina Luther, BSN, RN; Jenna Buchanan, BSN, RN; Lakeisha Atkins Malone, BSN, RN; Lauren Jarvis, BSN, RN, and Lehla Benavides, BSN, RN |
| 4:45 p.m. | **Adjourn** |
| 5 p.m. | **OPENING NIGHT RECEPTION**  
“La Vista,” 21st Floor of the Westin Oaks  
*Opening Night Welcome Reception and Exhibition Poster Presentation (All invited)* |
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8 a.m.</td>
<td>Continental Breakfast and Registration</td>
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<tr>
<td>9 a.m.</td>
<td>Introduction to the Neurocritical Care Board Exam • Tiffany Chang, MD</td>
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<tr>
<td>9:10 a.m.</td>
<td>Acute Coronary Syndromes and Shock • Francisco Fuentes, MD</td>
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<td>9:30 a.m.</td>
<td>Mechanical Ventilation and ARDS • Karin Halvorson, MD</td>
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<td>9:50 a.m.</td>
<td>Acute Kidney Injury and Common Electrolyte Disorders • George Williams, MD</td>
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<td>10:10 a.m.</td>
<td>Coagulopathy and Hemostatic Therapy • Tiffany Chang, MD</td>
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<td>10:30 a.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<td>10:40 a.m.</td>
<td>Break - Exhibit hall open</td>
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<tr>
<td>11 a.m.</td>
<td>GI Bleeding and Hepatic Failure • David Victor, MD</td>
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<td>11:20 a.m.</td>
<td>Antibiotic Therapy: Guidelines and Pearls • Teresa Allison, PharmD, BCPS, BCCCP</td>
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<td>11:40 a.m.</td>
<td>Diabetes Mellitus, Adrenal Insufficiency, and Thyroid Disorders in the ICU • Robert Brown, MD</td>
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<td>Noon</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>12:10 p.m.</td>
<td>Lunch</td>
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<tr>
<td>1:10 p.m.</td>
<td>Acute Ischemic Stroke • Nicole Gonzalez, MD</td>
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<td>1:30 p.m.</td>
<td>Subarachnoid Hemorrhage • H. Alex Choi, MD</td>
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<td>1:50 p.m.</td>
<td>Traumatic Brain Injury • Ryan Kitagawa, MD</td>
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<td>2:10 p.m.</td>
<td>Encephalopathies • Abhay Kumar, MD</td>
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<td>2:30 p.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<td>2:40 p.m.</td>
<td>Break - Exhibit Hall open</td>
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<td>3 p.m.</td>
<td>Brain and Spinal Cord Tumors • Yoshua Esquenazi, MD</td>
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<td>3:20 p.m.</td>
<td>CNS infections • Ritvij Bowry, MD</td>
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<td>3:40 p.m.</td>
<td>Toxic-Metabolic Disorders: NMS, Serotonin Syndrome, and Drug Overdose/Withdrawal • Wamda Ahmed, MD</td>
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<tr>
<td>4 p.m.</td>
<td>Inflammatory and Demyelinating Diseases • John Lincoln, MD</td>
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<td>4:20 p.m.</td>
<td>Coma, Herniation Syndromes, and Brain Death • Chethan Rao, MD</td>
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<tr>
<td>4:40 p.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>4:50 p.m.</td>
<td>Adjourn</td>
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<tr>
<td>5 p.m.</td>
<td>OPENING NIGHT RECEPTION</td>
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<tr>
<td>7 p.m.</td>
<td>Invited Speakers Dinner</td>
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DAY TWO: THURSDAY, APRIL 4, 2019
Comprehensive Care for the Neurologically Injured Patient

PROGRAM SCHEDULE

7 a.m.  Continental Breakfast and Registration

A.M. SESSION  GENERAL NEUROCRITICAL CARE
Care for general neurocritical care patients can be complex and data is limited. Hear how the experts manage these challenging cases.

Moderators: Abhay Kumar, MD

8 a.m.  Neur muscular Failure: GBS and MG • Kristin A. Brown, MD
8:25 a.m.  Diagnosis and Management of Noninfectious Encephalitis • Stephen Figueroa, MD
8:50 a.m.  SPECIAL LECTURE 1:
Introduction by Abhay Kumar, MD
Critical Care EEG: What does it all mean? • Samden Lhatoo, MD, FRCP
9:20 a.m.  Different Viewpoints: Seizures and Status Epilepticus
– Stepwise Approach to AED Management for Seizures • Shaun Smart, MD
– Algorithm for the Patient in Status Epilepticus • Abhay Kumar, MD
9:50 a.m.  Panel Discussion/Q&A
10 a.m.  Break - Exhibit hall open

10:30 a.m.  Pediatric Neurocritical Care • Jennifer Erklauer, MD
10:55 a.m.  Acute Care Neurosurgery for Children • Manish Shah, MD
11:20 a.m.  Panel Discussion/Q&A
11:30 a.m.  Lunch

P.M. SESSION 1  CEREBROVASCULAR NEUROLOGY
What’s new in vascular neurology? We will highlight advances in care and look towards the future of stroke management.

Moderators: Tiffany Chang, MD, and Anjail Sharrief, MD, MPH

12:30 p.m.  When Should I Close a PFO? • Anjail Sharrief, MD, MPH
12:55 p.m.  Neurosurgical Approaches to Intracerebral Hemorrhage Evacuation • P. Roc Chen, MD
1:20 p.m.  SPECIAL LECTURE 2:
Introduction by Anjail Sharrief, MD, MPH
The MISTIE III Trial and Future of Minimally Invasive Surgery for ICH • Wendy Ziai, MD
1:50 p.m.  SPECIAL LECTURE 3:
Introduction by Tiffany Chang, MD
The Patient Experience: Life After Intracerebral Hemorrhage and Participation in a Clinical Trial
2:20 p.m.  Panel Discussion/Q&A
2:30 p.m.  Break - Exhibit hall open

P.M. SESSION 2  CONCUSSIONS AND TRAUMATIC BRAIN INJURY
Neurologists are evaluating concussions more than ever before. Understand what a concussion is and how to approach it.

Moderator: Arthur Day, MD

3 p.m.  Different Viewpoints: TBI with Polytrauma
– The Brain Comes First, TBI Management Is Essentially the Same • Shankar Gopinath, MD
– Brain Injury Management Is Different with Polytrauma • Bryan Cotton, MD
### PROGRAM SCHEDULE

**DAY TWO: THURSDAY, APRIL 4, 2019**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>3:30 p.m.</td>
<td>Chronic Traumatic Encephalopathy • Paul Schulz, MD</td>
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<tr>
<td>3:55 p.m.</td>
<td>SPECIAL LECTURE 4: Assessment of a Concussion and Clearance to Return to Play • Arthur Day, MD</td>
</tr>
<tr>
<td>4:25 p.m.</td>
<td>SPECIAL LECTURE 5: Concussions in Professional Football • Introduction by James Muntz, MD The Player Experience: How a Player Feels About the Concussion Protocol • Brian Cushing</td>
</tr>
<tr>
<td>4:50 p.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>5 p.m.</td>
<td>Adjourn</td>
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<tr>
<td>6:30 p.m.</td>
<td>Faculty Dinner (By invitation only)</td>
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### PROGRAM SCHEDULE

**DAY THREE: FRIDAY, APRIL 5, 2019**

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7 a.m.</td>
<td>Continental Breakfast and Registration</td>
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<tr>
<td></td>
<td><strong>SIMULATION LABS AND WORKSHOPS</strong></td>
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<tr>
<td></td>
<td>Join us for fun and interactive simulation labs and workshops. In just an hour, you will familiarize yourself with critical care ultrasonography, neuromonitoring and bronchoscopy.</td>
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<tr>
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<td>Moderator: H. Alex Choi, MD</td>
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<tr>
<td>8 a.m.</td>
<td>Critical Care Ultrasound • George Williams, MD</td>
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<td>Bedside Neuromonitoring and Cranial Procedures in the ICU • H. Alex Choi, MD, and Mark J. Dannenbaum, MD</td>
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<td>Bronchoscopy Simulation Exercise • Pushan Jani, MD</td>
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<td></td>
<td><strong>HOT TOPICS IN CRITICAL CARE MEDICINE</strong></td>
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<td>What is the latest in critical care medicine? Explore current trends in sepsis management and general ICU care.</td>
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<td>Moderator: George Williams, MD</td>
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<tr>
<td>9 a.m.</td>
<td>Cutting Edge Sepsis Management: Vitamin C, Statins, and Other Trends • Bindu Akkanti, MD</td>
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<tr>
<td>9:25 a.m.</td>
<td>A Balanced Approach to Fluids in the ICU • Kevin Finkel, MD</td>
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<tr>
<td>9:50 a.m.</td>
<td>You Are What You Eat: Critical Care Nutrition • George Williams, MD</td>
</tr>
<tr>
<td>10:15 a.m.</td>
<td>Panel Discussion/Q&amp;A</td>
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<tr>
<td>10:25 a.m.</td>
<td>Break - Exhibit hall open</td>
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</table>
TRAVEL AND HOTEL ACCOMMODATIONS

Westin Oaks Galleria
5011 Westheimer Rd.
Houston, Texas 77056

Be sure to reserve your hotel rooms early! Discounted rooms are available to participants until the designated block of rooms is reserved. The group rate for a single/double is $139.

Reserve your room on our website, under “Travel and Accommodations.”

If booking travel, guests can fly into either Bush Intercontinental Airport (IAH) or Houston Hobby Airport (HOU).

Additional questions regarding travel or hotel accommodations? Please call Glenda Torres at 713.500.5638.

Visit our 2019 Neuro ICU Symposium site to receive exclusive event information, including:

- Detailed conference schedule
- Speaker bios, topics and notes
- Venue maps and information

And much more!

neuroicusymposium.org
Mischer Neuroscience Institute at Memorial Hermann-Texas Medical Center is internationally recognized for the treatment of high-acuity brain and spinal cord injuries. Physicians affiliated with the Neurotrauma and Neuroscience Critical Care Program manage more neurotrauma cases than any other center in the United States, with neurointensivists and experienced mid-level practitioners staffing the 32-bed Neuroscience and Neurotrauma ICU (NSICU) around the clock to provide ongoing intensive care to critically ill patients. The program continues to grow, and is now the largest and busiest Neuro ICU in the region and the second largest in the nation.

The Mischer Neuroscience Institute was the first in Texas and the only center in the region to receive the highly coveted Comprehensive Stroke Center certification from The Joint Commission and the American Heart Association/American Stroke Association. In addition to stroke, the Neuro ICU team provides comprehensive high-level care for all neurological and neurosurgical vascular emergencies and illnesses. The dedicated ICU team operates in a closed-unit model and is the primary care team for surgical vascular patients, providing leading-edge care 24/7.

Patients with acute neurological injuries also benefit from the Red Duke Trauma Institute at Memorial Hermann-Texas Medical Center. The Institute is one of only two Level 1 trauma centers in the area and one of the busiest in the nation, and is the home of Memorial Hermann Life Flight®, the first air medical transport service established in Texas and the second in the nation.

Mischer Neuroscience Institute has expanded the active role of Memorial Hermann Neurosciences in saving the lives of critically ill patients through new neurotrauma and neuroscience critical care programs at Memorial Hermann Southwest Hospital and Memorial Hermann Memorial City Medical Center. Each hospital’s Neuroscience ICU is staffed 24/7 by physicians affiliated with Mischer Neuroscience Institute and McGovern Medical School, all of whom are fellowship trained in neurocritical care. These neurointensivists work hand in hand with neurosurgeons to provide superior care after neurological surgery.
For additional information, please visit neuroicusymposium.org or call Glenda Torres at 713.500.5638.